Double diaphragm pump with complete emptying

2"

Max. 600 l/min

Complete emptying

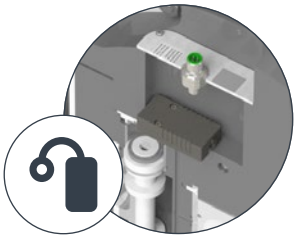
Stainless steel (VA)

NEW

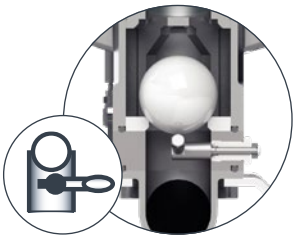
Ready for Future

www.timmer-pumps.com/en/double_diaphragm_pumps_1to1/

DIN flange
DN50/PN10
2" BSP
combined connection



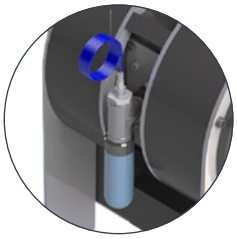
Integrated intelligent sensor (iHZ)



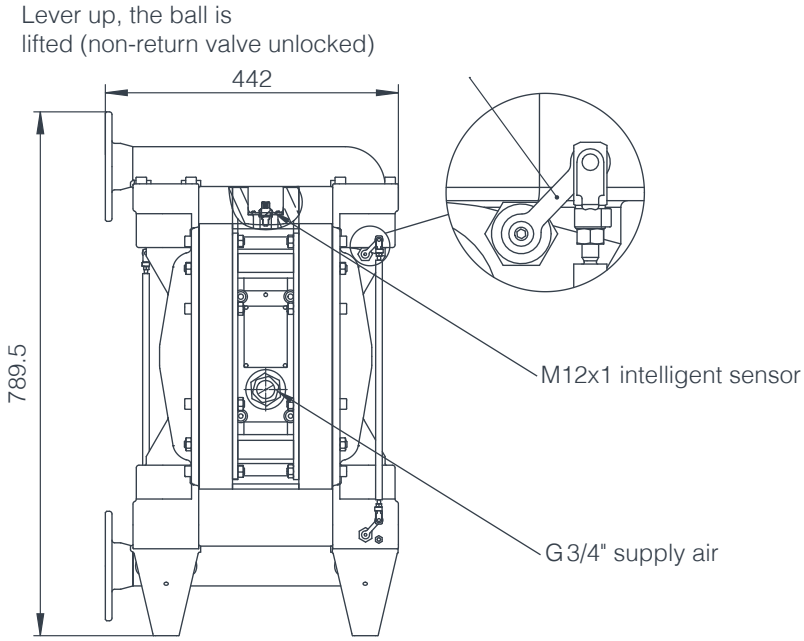
Gravity-loaded, manually piloted valve balls

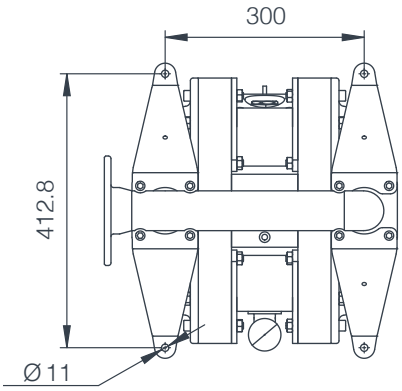
Double diaphragm pump with complete emptying

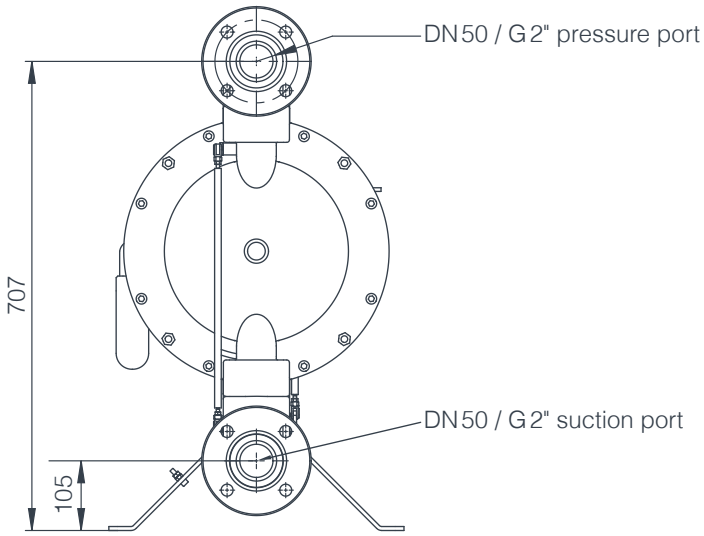
Optional



Diaphragm rupture monitoring







Technical drawing:
All dimensions in mm

Double diaphragm pump with complete emptying

PREMIUM double diaphragm pumps PTI-MEM5600V-VA-RE

Order no.	Type	Media pipes	Material design	ATEX
53503569	PTI-MEM5600V-VA-TF-TF-TF-FEP-PE1-iHZ-FL-RE	Rotates 180° Flange / thread 2"	VA	✓

This pump is a further development of the original tim®PRO series, which has been highly regarded for many years in the paint supply sector and the printing machine industry for its process reliability and easy maintenance.
In addition to these advantages the tim®PRO pump
is particularly characterised
by its high chemical resistance, as well as good rinsing capability and thus it is ideally suited for use in the chemical industry.
Via manually activated eccentric tappet the valve balls can be lifted out of the seats.
This enables virtually complete return of the residual media quantity via the pump's suction pipe.
These variants are delivered with an intelligent IoT-enabled sensor, which allows real-time testing of the stroke signals, incl. process-relevant data (total of all strokes, average frequency, frequency histogram) via a customer PLC. With connection of our tim®IOT smartbox we enable many useful new features that increase profitability, process reliability and facilitate preventive maintenance. Simply integrate our tim®IOT smartbox in your system and benefit from these advantages. All information in this regard is provided starting on page 84.

Technical data

Transmission ratio	:	Approx. 1 to 1
Output (max.)	:	Approx. 600 l/min (for water)
Pump pressure (max.)	:	7 bar
Drive	:	Pneumatic
Fluid connections	:	DIN flange PN10 / DN50, G 2"
Operating pressure	:	1 to 7 bar compressed air, unoiled, filtered, or oiled
Compressed air connection	:	G 3/4" internal thread
Suction head, dry	:	Approx. 6 meters self-priming
Weight	:	Approx. 76 kg
Medium temperature	:	Max. +5 °C to + 70 °C
Ex protection	:	ATEX (see operating manual for more information)

Material

Side section	:	Stainless steel
Middle housing section	:	PE black, conductive
fluid seals	:	FEP / EPDM
Pneumatic seals	:	NBR / PUR
Valve seats	:	PTFE
valve balls	:	PTFE
Diaphragm / piston seal	:	TFM
control valve	:	Ceramic/plastic
Screws	:	Stainless steel
Valve pipes	:	Stainless steel
Springs	:	None

Media

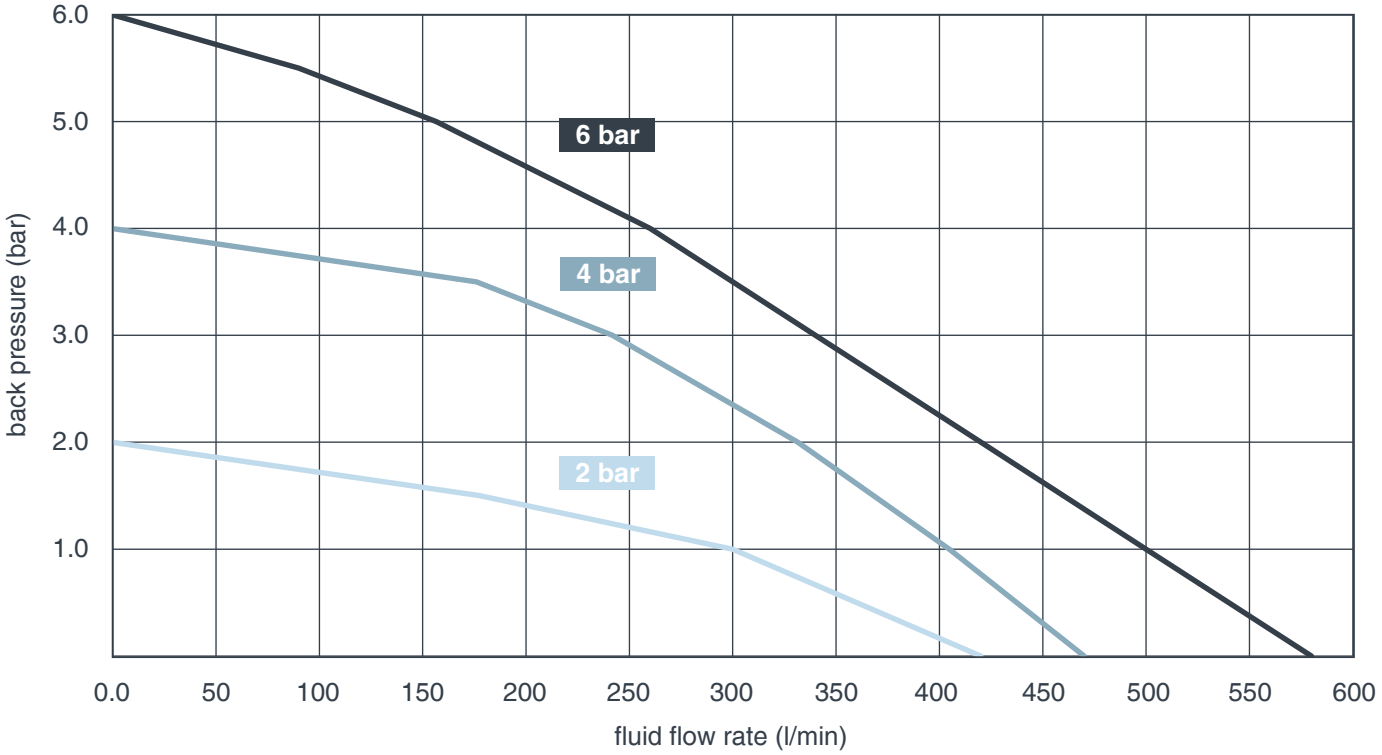
The pump is suitable for pumping a wide variety of fluids (media).Resistance to the media that will be pumped must be checked on a case-by-case basis.

We would be happy to advise you on the suitability for your specific application.

ADDITIONAL VERSIONS ON REQUEST

Double diaphragm pump with complete emptying

Fluid delivery volume



Added values

Maximum paint recovery

Residual quantities of the medium can be recirculated by mechanically lifting the valve balls.

Easy installation

Easy replacement of the valve balls without dismounting the side cover or the unperforated diaphragms.Special tools are not required for mounting / dismounting. Only 4 sealing rings are installed on the media side.

Reduced compressed air costs

Optimised geometries with minimal dead spaces, as well as the extremely low start-up pressures <0.7 bar, reduce energy consumption to a minimum.

Maximisation of service life

The ceramic slide valve that is used works virtually free of wear. The durable diaphragms enable maximisation of service life.

Minimal maintenance costs

The durable diaphragms, the low-wear ceramic slide valve and the easy-maintenance structure of the pump guarantee extremely low service costs.

Increased process reliability

Safe start-up of the pump is ensured, even in critical operating situations. The bistable, over-centre valve prevents problematic intermediate positions of the control valve.